



GPS 16A

WITH WAAS
for even greater accuracy

The Garmin GPS 16A delivers precise
position reporting for agricultural
applications such as yield monitoring
so you can pinpoint areas in a field
that may require additional fertilizer

Rugged GPS receiver for ag applications

or other treatment. The 12-channel
receiver allows for continuous tracking
of all visible satellites. And it's WAAS-
capable for better position accuracy.

This GPS sensor consists of an integrated
antenna housed in a rugged, waterproof
design. It includes a Teflon™-jacketed
cable for resistance to agricultural
chemicals, sun and the elements.





specifications

Electrical

Input voltage: Unregulated 8–40v
Input current: 65 mA @ 12v DC
28 mA @ 40v DC

Sensitivity: -165 dBW minimum

GPS performance

Receiver: WAAS-enabled, 12 parallel channel GPS receiver continuously tracks and uses up to 12 satellites to compute and update your position

Acquisition times:*

Reacquisition: Less than 2 seconds
Warm: Approximately 15 seconds
Cold: Approximately 45 seconds
AutoLocate™: 2 minutes
SkySearch: 5 minutes

Update rate: 5Hz

GPS accuracy:

Position: < 15 meters, 95% typical**
Velocity: 0.1 knot RMS steady state

DGPS (USCG) accuracy:

Position: 3-5 meters, 95% typical
Velocity: 0.1 knot RMS steady state

DGPS (WAAS) accuracy:

Position: < 3 meters, 95% typical
Velocity: 0.1 knot RMS steady state

Dynamics: 999 knots, 6g's

Map datums: 108 predefined, 1 user

Interfaces

Serial interface:

Port 1: Selectable between NMEA and Garmin. NMEA 0183 v2.0 (ASCII), GPALM, GPGGA, GPGSA, GPGSV, GPRMC, GPVTG, GPGLL, PGRME, PGRMF, PGRMT and PGRMV output
Port 2: RTCM only. RTCM SC-104 differential input message types 1, 2, 3, 7 and 9

Baud rates: 300/600/1200/2400/4800/9600/19200

Environmental

Temperature:

Operating: – 30° to 80°C
Storage: – 40° to 80°C

Physical

Size: 3.54" diameter (90 mm)
1.65" height (42 mm)

Weight: .46 lb. (0.209 kg) unit only
1.1 lb. (0.499 kg) with cable

Cable: Foil-shielded 5 conductor 22 AWG

Mount: Magnetic base included

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For more information, please refer to our tech specs, which are available on our Web site:
<http://www.garmin.com/products/gps16a/manual.html>

Specifications are preliminary and subject to change without notice.

* Warm = all data known.
Cold = position, time and almanac known.
AutoLocate™ = almanac known, position and time unknown.
SkySearch = no data known.

**Subject to accuracy degradation to 100m 2DRMS under the U.S. Department of Defense imposed Selective Availability Program.